

Features

- 1008 size
- Available in E12 series
- High Q
- High operating temperature of 125 °C

CW252016 Series - High Q Chip Inductors

RoHS compliant*

Applications

- Mobile phones
- Cellular phones
- CTV, VCR, HIC, FDD

Electrical Specifications

Bourns [®] Part No.	Inductance		Q	Test (M	Freq. Hz)	SRF (MHz)	RDC (Ohms)	I rms (mA)
	nH	Tol. %	Min.	L	Q	Min.	Max.	Max.
CW252016-10NK	10	±10	50	50	500	4100	0.08	1000
CW252016-12NK	12	±10	50	50	500	3300	0.09	1000
CW252016-15NK	15	±10	50	50	500	2500	0.10	1000
CW252016-18NK	18	±10	50	50	350	2500	0.11	1000
CW252016-22NK	22	±10	55	50	350	2400	0.12	1000
CW252016-27NK	27	±10	55	50	350	1600	0.13	1000
CW252016-33NK	33	±10	60	50	350	1600	0.14	1000
CW252016-39NK	39	±10	60	50	350	1500	0.15	1000
CW252016-47NK	47	±10	65	50	350	1500	0.16	1000
CW252016-56NJ	56	±5	65	50	350	1300	0.18	1000
CW252016-68NJ	68	±5	65	50	350	1300	0.20	1000
CW252016-82NJ	82	±5	60	50	350	1000	0.22	1000
CW252016-R10J	100	±5	60	25.2	350	1000	0.56	650
CW252016-R12J	120	±5	60	25.2	350	950	0.63	650
CW252016-R15J	150	±5	45	25.2	100	850	0.70	580
CW252016-R18J	180	±5	45	25.2	100	750	0.77	620
CW252016-R22J	220	±5	45	25.2	100	700	0.84	500
CW252016-R27J	270	±5	45	25.2	100	600	0.91	500
CW252016-R33J	330	±5	45	25.2	100	570	1.05	450
CW252016-R39J	390	±5	45	25.2	100	500	1.12	470
CW252016-R47J	470	±5	45	25.2	100	450	1.19	470
CW252016-R56J	560	±5	45	25.2	100	415	1.33	400
CW252016-R68J	680	±5	45	25.2	100	375	1.55	400
CW252016-R82J	820	±5	45	25.2	100	350	2.30	180
CW252016-1R0J	1000	±5	35	25.2	50	290	1.75	370
CW252016-1R2J	1200	±5	35	7.96	50	250	2.00	310
CW252016-1R5J	1500	±5	28	7.96	50	200	2.30	330
CW252016-1R8J	1800	±5	28	7.96	50	160	2.60	300
CW252016-2R2J	2200	±5	28	7.96	50	160	2.80	280
CW252016-2R7J	2700	±5	22	7.96	25	140	3.20	290
CW252016-3R3J	3300	±5	22	7.96	25	110	3.40	290
CW252016-3R9J	3900	±5	20	7.96	25	100	3.60	260
CW252016-4R7J	4700	±5	20	7.96	25	50	4.00	260

Temperature Rise Operating Temperature-40 °C to +125 °C

General Specifications

Storage Temperature -40 °C to +125 °C Reflow Soldering .. 230 °C, 50 sec. max.

Resistance to Soldering Heat+260 °C, 5 seconds

Materials

Core Material	
-10NK thru -R82J.	Ceramic
-1R0J thru -4R7J	Ferrite
Wire Enameled	copper (1W1E180)
Terminal	Mo/Mn+Ni+Au
Packaging	.2,000 pcs. per reel

Product Dimensions





Recommended Layout





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WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Typical Part Marking

R12

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Soldering Profile



Packaging Specifications



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Users should verify actual device performance in their specific applications.

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